C:\Users\Kiera Jay\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\Z3ZMMUNZ\MC900240927[1].wmf

**Problems Menu**

*“Scientific Notation Operations”*

Select 8 problems from this menu to use in your quiz. You must choose at least 6 entrees and a choice of two problems from the starters and/or desserts.

Any student, who wishes to create their own problems, must have them pre-approved by the teacher.

**Note:** Your quiz must include examples of addition, subtraction, multiplication, division and powers raised to another power.

Starters

|  |  |  |  |
| --- | --- | --- | --- |
| **1** | (3.95 x 103) + (7.8 x 103) | **8** | (8.23 x 104) – (3.02 x 104) |
| **2** | (4.3 × 106) – (5.9 × 105) | **9** | (8.2 × 10-1) + (5 × 10-1) |
| **3** | (3.2 × 105) ÷ (8 × 108) | **10** | (1.9 × 10-3)+ (7 × 10-3) |
| **4** | (2 × 101) × (6 × 104) | **11** | (9.9 × 101) – (8.5 × 103) |
| **5** | (3 × 10-3) × (8 × 102) | **12** | (6 × 10-6) ÷ (2 × 104) |
| **6** | (1.2 × 101) ÷ (6 × 10-8) | **13** | (2 x 10-3) x (8 x 10-4) |
| **7** | (6.8 x 103) x (4.54 x 106) | **14** | (3 × 10-9) × (9 × 10-1) |

Entrees

|  |  |  |  |
| --- | --- | --- | --- |
| **15** | (7.83 x 10-2) – (2.20 x 10-3) | **26** | (4.42 x 10-3) x (4 x 10-2) |
| **16** | (5.3 × 105) – (8.8 × 104) | **27** | (3.6 × 106) – (3.6 × 105) |
| **17** | (3.2 × 108) + (7.8 × 106) | **28** | (1.042 x 10-1) x (4.002 x 10-5) |
| **18** | (1.92 x 10-2) ÷ (2.3 x 106) | **29** | (2.3 × 105) + (7.7 × 103) |
| **19** | (4.9 × 10-15) ÷ (7 × 10-9) | **30** | (1.4 × 107) ÷ (2 × 1010) |
| **20** | (5.6 × 10-18) ÷ (7 × 10-10) | **31** | (3 × 102) × (5 × 106) |
| **21** | (5.9 × 103) – (6.4 × 101) | **32** | (1.6 × 101) – (5.9 × 103) |
| **22** | (3.9 × 108) + (2.4 × 109) | **33** | (1.4 × 101) + (3.8 × 10-1) |
| **23** | [(9.3 × 10-3) + (2.8 × 10-3)]0 | **34** | (6 × 10-4) × (2 × 104) |
| **24** | [(7 × 10-8) × (1 × 105)]3 | **35** | [(1.5 × 1017) ÷ (5 × 107)]2 |
| **25** | [(9.2 × 106) + (7.8 × 105)]-1 | **36** | [(1.3 × 10-4) + (6.9 × 10-5)]-2 |

Desserts

|  |  |  |  |
| --- | --- | --- | --- |
| **37** | A contractor buys a parcel of land to establish an industrial park. The tract of land measures 5.36 x 103 meters by 1.38 x 104 meters.  What is the area of this tract in square meters? | **41** | The city of Steubenville has commissioned a company to design a flag for the city.  They want the dimensions of the flag to be 1.26 x 104  cm by 8.40 x 103 cm.  What will the area of this flag be in square centimeters? |
| **38** | 5 × 100 + 1.7 × 100 | **42** | [3.9 × 108 + 2.4 × 109]-2 |
| **39** | The speed of light is 3 x 108meters/second. If the sun is 1.5x 1011 meters from earth, how many seconds does it take light to reach the earth? Express your answer in scientific notation | **43** | Use the equation *speed = distance/time* to find the speed of a car that travels 3.7 x 106 meters in 3.10 x 105 seconds. |
| **40** | [6.9 × 10-4 + 1.5 × 10-6 ]2 + (2.01 × 10-6) | **44** | (1.2 × 100) ÷ (4 × 10-6) |

C:\Users\Kiera Jay\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\CGM49ZRG\MC900323109[1].wmf